

Elliott et al. PREDICTIVE ALGORITHMIC MODEL UV-103J Applicant: Title: Docket No.: Attorney: Page 2 of 4 Bruce E. Kamerer, Reg. No. 36,181 193 248 266 355 Wavelength (nm) **Dependencies** Spectral ■ Material Absorption ■ Gas Absorption Ö ß 2 5 5 (Arbitrary Units) **Absoption Properties** 0.13 0.0 8 027 350.68 99 0.13 0.10 0.09 2.10 1.86 1.74 -0.27 600 0.07 0.7 Angle of Incidence (Degrees) Reflectivity Amplitude (s & p) Material Refractive Reflectivity Component (s & p) Total Reflectivity Index 0.0000675 0.00675 0.07 0 0 0 0 0 0 62 0 0 0 0 0 0 0 0 0 499 499 499 200 200 200 200 499 0 0 0 0

Through Gas (cm)

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Fluence Increment (mJ/cm2)

25

00

Path

Pressure

Base Fluence Value (mJ/cm2)

Total

**Pulse Fluence** 

0,7

0.002

Photo-chemical parameter 1

0.148

(micron-1)

5.19

30

Threshold

Material

(mJ/cm2)

762.75

(Ozone) Gas 1

Ozone + Oxygen

Reactive Gases (Oxygen)

266 266

/avelength

Laser EU)

8

other

Gas 2

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1.73 1.73

Absorption Coefficient

Cross Section (x 10-20 cm)

Increment

(Torr) 0 0 0

(Torr) Pressure Partial

Pressure Partial

Reactive Gases

AZ 2400 Photo Resist

Removed Material

Case Definition

67.50 810.00

Material

Molecular

Starting

Chemical

nc., PhbtoChemical Ablation Model

UVTech Systems

**Gas Parameters** 

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**Material Parameters** 

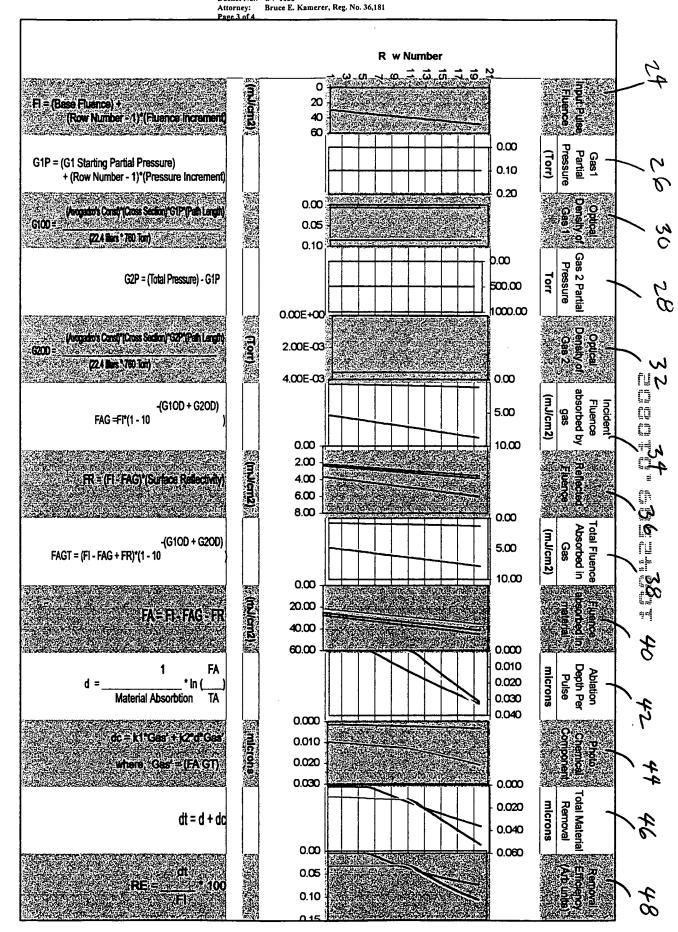
0.02

Photochemical

parameter 2

Applicant: Elliott et al.
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Docket No.: UV-103J

PREDICTIVE ALGORITHMIC MODEL
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46	$\downarrow$	_	microns		Total Material	Removal	1.367	1.304	1.241	1.178	1.116	1.054	0.992	0.930	0.868	0.806	0.744	0.682	0.619	0.556	0.491	0.424	0.353	0.274	0.171	0.000	
44	+	_	Tulligent		Walter Transfer	The same of	X4.50	W. 25 (A)	(8) X Y	TE PAGE	300 616	157.76	(E) (E) (E)	\$ 15.00 E	を変し	(1)	1.1.016	(a) . (b)	100	1. 後漢	2000	(e) (h)	(a (a c) /		(2,25)	83000	
4,		_	microns	Ablation	Ļ		0.439	0.434	0.428	0.422	0.416	0.409	0.401	0.393	0.385	0.375	0.365	0.353	0.340	0.324	0.306	0.284	0.256	0.216	0.148	0.000	
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		<u> </u>	(mJ/cm2)	Total Fluence	Absorbed in	Gas	85.99	81.47	76.95	72.44	67.92	63.40	58.88	54.36	49.85	45.33	40.81	36.29	31.78	27.26	22.74	18.22	13.70	9.19	4.67	0.15	
		_ :			( ) ( ) ( ) ( ) ( ) ( )	14(1)	-2.70	1. 13.7%	1		(4)(1)	一次	100000	( ) ( )	中華事一	1016	を記せる	图 经交流	0.77	製造	il don't					Č	
	+	/	(mJ/cm2)	Incident	absorbed by	gas	90.78	86.01	81.24	76.47	71.70	66.93	62.16	57.39	52.62	47.85	43.08	38.31	33.55	28.78	24.01	19.24	14.47	9.70	4.93	0.16	
,,/	+	1			(a) (a) (d)		10/00/2 - No 3/01	1207/20080	(0) 0 6 C = 7 K + 7 C	(0) 00 C STATE SEE	(a) (c - 7 c ) e (c)	Second Second	(0) o o c - V = 27.5	(0) 6 4 6 57 EVE		\$10,00 = 7 c F J	3(0 FG = 5 P ex. C	0.000 570000	A ( 3 0 C - Y C ' Z )	1150 STEVE	(a) (a) (c) (c) (c)	00000000	0/000000000	()(00(C=1/2/2/2)	0 000 575 220	0.000	
10 20	1	_	(Torr)		Gas 2 Partial	Pressure	499.00	499.00	499.00	499.00	499.00	499.00	499.00	499.00	499.00	499.00	499.00	499.00	499.00	499.00	499.00	499.00	499.00	499.00	499.00	499.00	
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		_	(Torr)	Gas 1	Partial	Pressure	j		- 1	1.00	- 1	- 1		1.00	1.00	1.00	1.00			- 1		1.00	1.00	1.00	1.00	1.00	
\	+		(malleur)		The Control		100	<b>第</b>			が優か	(1)				(0)	200	18.50 18.50				2			5		
		193 nm			Row	Number	20	19	18	17	9	15	14	13	12	-	10	တ	80	7	မ	2	4	က	2	-	